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Remarks

This is in response to the Official Action mailed September 19, 2005. Applicants note with appreciation the courtesy and professionalism of both of the Examiners present during the recent Office Interview.

As set forth in the Interview Summary (Paper No 1005), the amended claims overcome the art of record as applied to date.

In the recent Office Action, the originally presented claims (1-12) were objected to because step (e) followed step (c). Claim 1 has been amended to correct this typographical error.

Claim 3 was rejected based on the presence of the recitation "acids" which the Examiner stated should be "amino acids." Claim 3 has accordingly been amended in that fashion.

Following the Restriction Requirement (mailed July 20, 2005) and Applicants' Election (filed July 28, 2005), Claim 1 remained as the only independent claim under consideration. The Examiner took the position that Claim 1 was anticipated by either the Erdelyi or Yu references.

In response, and as discussed at the interview, Claim 1 has been amended to clarify that the application of microwaves is carried out during both the deprotecting and coupling steps and potentially during the activation step as well. The applied references limit the application of microwave to the coupling step. Thus, Claim 1 defines over the § 102 art as applied to date.

As further discussed in the Interview, and with respect to the obviousness rejection brought under the combination of Yu and Santagada (and in some cases with Greene), the applied references represent the conventional thinking; i.e., that the deprotection step is particularly susceptible to undesired side reactions. Thus, the cited references lack any encouragement to accelerate or otherwise enhance the deprotection step because of the conventional belief that this would decrease yield of the desired product.

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In contrast, the claimed invention specifically enhances the deprotection reaction by applying microwaves and thus stands in contrast to the applied art.

As further discussed at the Interview, two new independent claims are presented, each of which combines the recitations of amended Claim 1 with recitations from some of the originally presented dependent claims. New claim 62 incorporates the recitation of proactively cooling the vessel and its contents during the application of microwave energy. Such cooling permits the microwaves to enhance the reaction while avoiding the undesired effects of excessive heat. Newly presented dependent claims 63 through 72 correspond in their language to the originally presented dependent claims.

Newly presented independent claim 73 incorporates the recitation of repeating the cycle to add third and successive amino acids, and doing so in a single vessel without removing the peptide from the resin between cycles. These manipulative steps permit the corresponding instrument to operate in automated fashion. Dependent claims 74-82 likewise correspond to the originally presented dependent claims.

Based on the number of claims filed originally (61 total, 4 independent) Applicants believe that no additional fee is required for presenting the amended claim set. The Commissioner is, however, hereby authorized to charge any required fees to Deposit Account No. 50-0332.

The method of the claimed invention has met commercial success in the form of industry acceptance and sales of the associated instrument (which is the subject of the nonelected claims herein and the now co-pending divisional applications). As examples, two exhibits were shown at the Interview, and images of these are included herein. One is a Bulletin from the Brookhaven National Laboratory and the other is a report of the 2004 R&D 100 Award. Applicants respectfully submit that these items represent objective evidence of nonobviousness.

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Applicant accordingly submits that all of the pending claims are in condition for immediate allowance, and the same is respectfully requested.

spectfully submitted,

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CERTIFICATE OF FACSIMILE TRANSMISSION

I hereby certify that this correspondence is being transmitted by facsimile to the U.S. Patent and Trademark Office, Group Art Unit 1659, at contralized facsimile number 571 273 8300 on October 24, 2005.

Philip Summ

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